

RAW SEQUENCE LISTING

**The Biotechnology Systems Branch of the Scientific and Technical
Information Center (STIC) no errors detected.**

Application Serial Number: 10/816,708

Source: _____

Date Processed by STIC: _____

ENTERED



IFWO

RAW SEQUENCE LISTING

DATE: 10/19/2004

PATENT APPLICATION: US/10/816,708

TIME: 09:23:27

Input Set : N:\Crf3\RULE60\10816708.raw.txt

Output Set: N:\CRF4\10192004\J816708.raw

```

1 <110> APPLICANT: Corbett, Wendy Lea
2   Crowther, Robert Lewis
3   Dunten, Pete William
4   Kammlott, R. Ursula
5   Lukacs, Christine Maria
6 <120> TITLE OF INVENTION: Crystals of Glucokinase and Methods of Growing Them
7 <130> FILE REFERENCE: 20892US1
8 <140> CURRENT APPLICATION NUMBER: US/10/816,708
9 <141> CURRENT FILING DATE: 2004-04-02
10 <150> PRIOR APPLICATION NUMBER: US/10/318,308
11 <151> PRIOR FILING DATE: 2002-12-12
12 <150> PRIOR APPLICATION NUMBER: US 60/341,988
13 <151> PRIOR FILING DATE: 2001-12-19
14 <160> NUMBER OF SEQ ID NOS: 1
15 <170> SOFTWARE: PatentIn version 3.1
17 <210> SEQ ID NO: 1
18 <211> LENGTH: 692
19 <212> TYPE: PRT
20 <213> ORGANISM: Escherichia coli
21 <400> SEQUENCE: 1
22   Met Ser Pro Ile Leu Gly Tyr Trp Lys Ile Lys Gly Leu Val Gln Pro
23     1             5             10             15
24   Thr Arg Leu Leu Leu Glu Tyr Leu Glu Glu Lys Tyr Glu Glu His Leu
25             20             25             30
26   Tyr Glu Arg Asp Glu Gly Asp Lys Trp Arg Asn Lys Lys Phe Glu Leu
27             35             40             45
28   Gly Leu Glu Phe Pro Asn Leu Pro Tyr Tyr Ile Asp Gly Asp Val Lys
29             50             55             60
30   Leu Thr Gln Ser Met Ala Ile Ile Arg Tyr Ile Ala Asp Lys His Asn
31             65             70             75             80
32   Met Leu Gly Gly Cys Pro Lys Glu Arg Ala Glu Ile Ser Met Leu Glu
33             85             90             95
34   Gly Ala Val Leu Asp Ile Arg Tyr Gly Val Ser Arg Ile Ala Tyr Ser
35             100            105            110
36   Lys Asp Phe Glu Thr Leu Lys Val Asp Phe Leu Ser Lys Leu Pro Glu
37             115            120            125
38   Met Leu Lys Met Phe Glu Asp Arg Leu Cys His Lys Thr Tyr Leu Asn
39             130            135            140
40   Gly Asp His Val Thr His Pro Asp Phe Met Leu Tyr Asp Ala Leu Asp
41             145            150            155            160
42   Val Val Leu Tyr Met Asp Pro Met Cys Leu Asp Ala Phe Pro Lys Leu
43             165            170            175
44   Val Cys Phe Lys Lys Arg Ile Glu Ala Ile Pro Gln Ile Asp Lys Tyr

```

RAW SEQUENCE LISTING

DATE: 10/19/2004

PATENT APPLICATION: US/10/816,708

TIME: 09:23:27

Input Set : N:\Crif3\RULE60\10816708.raw.txt

Output Set: N:\CRF4\10192004\J816708.raw

45				180				185				190				
46	Leu	Lys	Ser	Ser	Lys	Tyr	Ile	Ala	Trp	Pro	Leu	Gln	Gly	Trp	Gln	Ala
47			195					200				205				
48	Thr	Phe	Gly	Gly	Gly	Asp	His	Pro	Pro	Lys	Ser	Asp	Leu	Ile	Glu	Gly
49		210				215					220					
50	Arg	Gly	Ile	His	Met	Pro	Arg	Pro	Arg	Ser	Gln	Leu	Pro	Gln	Pro	Asn
51	225					230					235					240
52	Ser	Gln	Val	Glu	Gln	Ile	Leu	Ala	Glu	Phe	Gln	Leu	Gln	Glu	Glu	Asp
53				245					250						255	
54	Leu	Lys	Lys	Val	Met	Arg	Arg	Met	Gln	Lys	Glu	Met	Asp	Arg	Gly	Leu
55			260						265					270		
56	Arg	Leu	Glu	Thr	His	Glu	Glu	Ala	Ser	Val	Lys	Met	Leu	Pro	Thr	Tyr
57		275						280					285			
58	Val	Arg	Ser	Thr	Pro	Glu	Gly	Ser	Glu	Val	Gly	Asp	Phe	Leu	Ser	Leu
59		290					295				300					
60	Asp	Leu	Gly	Gly	Thr	Asn	Phe	Arg	Val	Met	Leu	Val	Lys	Val	Gly	Glu
61	305					310					315					320
62	Gly	Glu	Glu	Gly	Gln	Trp	Ser	Val	Lys	Thr	Lys	His	Gln	Met	Tyr	Ser
63				325					330						335	
64	Ile	Pro	Glu	Asp	Ala	Met	Thr	Gly	Thr	Ala	Glu	Met	Leu	Phe	Asp	Tyr
65			340					345					350			
66	Ile	Ser	Glu	Cys	Ile	Ser	Asp	Phe	Leu	Asp	Lys	His	Gln	Met	Lys	His
67		355					360					365				
68	Lys	Lys	Leu	Pro	Leu	Gly	Phe	Thr	Phe	Ser	Phe	Pro	Val	Arg	His	Glu
69		370				375					380					
70	Asp	Ile	Asp	Lys	Gly	Ile	Leu	Leu	Asn	Trp	Thr	Lys	Gly	Phe	Lys	Ala
71	385				390					395						400
72	Ser	Gly	Ala	Glu	Gly	Asn	Asn	Val	Val	Gly	Leu	Leu	Arg	Asp	Ala	Ile
73				405					410						415	
74	Lys	Arg	Arg	Gly	Asp	Phe	Glu	Met	Asp	Val	Val	Ala	Met	Val	Asn	Asp
75			420						425					430		
76	Thr	Val	Ala	Thr	Met	Ile	Ser	Cys	Tyr	Tyr	Glu	Asp	His	Gln	Cys	Glu
77		435					440						445			
78	Val	Gly	Met	Ile	Val	Gly	Thr	Gly	Cys	Asn	Ala	Cys	Tyr	Met	Glu	Glu
79		450				455					460					
80	Met	Gln	Asn	Val	Glu	Leu	Val	Glu	Gly	Asp	Glu	Gly	Arg	Met	Cys	Val
81	465				470					475					480	
82	Asn	Thr	Glu	Trp	Gly	Ala	Phe	Gly	Asp	Ser	Gly	Glu	Leu	Asp	Glu	Phe
83				485					490						495	
84	Leu	Leu	Glu	Tyr	Asp	Arg	Leu	Val	Asp	Glu	Ser	Ser	Ala	Asn	Pro	Gly
85			500						505					510		
86	Gln	Gln	Leu	Tyr	Glu	Lys	Leu	Ile	Gly	Gly	Lys	Tyr	Met	Gly	Glu	Leu
87		515						520					525			
88	Val	Arg	Leu	Val	Leu	Leu	Arg	Leu	Val	Asp	Glu	Asn	Leu	Leu	Phe	His
89		530				535					540					
90	Gly	Glu	Ala	Ser	Glu	Gln	Leu	Arg	Thr	Arg	Gly	Ala	Phe	Glu	Thr	Arg
91	545					550				555						560
92	Phe	Val	Ser	Gln	Val	Glu	Ser	Asp	Thr	Gly	Asp	Arg	Lys	Gln	Ile	Tyr
93				565					570						575	

RAW SEQUENCE LISTING

DATE: 10/19/2004

PATENT APPLICATION: US/10/816,708

TIME: 09:23:27

Input Set : N:\CrF3\RULE60\10816708.raw.txt

Output Set: N:\CRF4\10192004\J816708.raw

```

94   Asn Ile Leu Ser Thr Leu Gly Leu Arg Pro Ser Thr Thr Asp Cys Asp
95           580                      585                      590
96   Ile Val Arg Arg Ala Cys Glu Ser Val Ser Thr Arg Ala Ala His Met
97           595                      600                      605
98   Cys Ser Ala Gly Leu Ala Gly Val Ile Asn Arg Met Arg Glu Ser Arg
99           610                      615                      620
100  Ser Glu Asp Val Met Arg Ile Thr Val Gly Val Asp Gly Ser Val Tyr
101  625                      630                      635                      640
102  Lys Leu His Pro Ser Phe Lys Glu Arg Phe His Ala Ser Val Arg Arg
103           645                      650                      655
104  Leu Thr Pro Ser Cys Glu Ile Thr Phe Ile Glu Ser Glu Glu Gly Ser
105           660                      665                      670
106  Gly Arg Gly Ala Ala Leu Val Ser Ala Val Ala Cys Lys Lys Ala Cys
107           675                      680                      685
108  Met Leu Gly Gln
109           690

```

VERIFICATION SUMMARY

PATENT APPLICATION: US/10/816,708

DATE: 10/19/2004

TIME: 09:23:28

Input Set : N:\Crf3\RULE60\10816708.raw.txt

Output Set: N:\CRF4\10192004\J816708.raw